

12. The generator of claim 9 wherein the output is split into AC and rectified DC.
13. The generator of claim 9 wherein the output is having any combinations of low and high voltage as well as AC and DC.
14. The generator of claim 9 wherein said rotor is having claw-shaped magnetic poles.
- 5 15. The generator of claim 9 wherein said rotor is having permanent magnet poles.
16. The generator of claim 9 wherein said stator poles have same dimensional width as said rotor poles.
17. The generator of claim 9 wherein the AC output is rectified by four diodes in a bridge circuit and then is connected to a DC load.
- 10 18. The generator of claim 9 wherein said four diodes are the sole diodes in the generator system.
19. The generator of claim 1 wherein said alternately wound coils are in a position in front of said rotor poles to generate AC at all times.
20. The generator of claim 6 wherein its construction is brushless and void of slip rings.
21. The generator of claim 8 wherein said D.C. load is having a capacitor connected across it.
- 15 22. The generator of claim 2 wherein the AC output and the D.C. output have a common ground.